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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/620,876	07/15/2003	Hiroshi Akimoto	SCT106U	7614	
	7590 02/05/2008 Merchant & Gould PC			EXAMINER	
PO Box 2603			PERUNGAVOOR, SATHYANARAYA V		
Minneapolis, MN 55402			ART UNIT	PAPER NUMBER	
			2624		
			MAIL DATE	DELIVERY MODE	
	•		02/05/2008	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
Office Action Summary	10/620,876	AKIMOTO ET AL.				
Office Action Summary	Examiner	Art Unit				
The MAILING DATE of this communication app	Sath V. Perungavoor	2624				
Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be time rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	lely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
. 1)⊠ Responsive to communication(s) filed on <u>14 December 2007</u> .						
2a) ☐ This action is FINAL . 2b) ☒ This	This action is FINAL . 2b)⊠ This action is non-final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims		•				
4) ☐ Claim(s) 1 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or						
Application Papers						
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the or Replacement drawing sheet(s) including the correction 11) The oath or declaration is objected to by the Examiner 9) The specification is objected to by the Examiner 10) The oath or declaration is objected to by the Examiner 11)	epted or b) objected to by the Edrawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ite				

DETAILED ACTION

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Continued Examination Under 37 CFR 1.114

[1] A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on December 14, 2007 has been entered.

Response to Arguments/Amendments

[2] Presented arguments have been fully considered, but are rendered moot in view of the new ground(s) of rejection necessitated by amendment(s) initiated by the applicant(s).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- [3] Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over Iwahashiⁱ et al. ("Iwahashi") in view of Tongⁱⁱ et al. ("Tong").

Regarding claim 1, Iwahashi discloses the following claim limitations:

A method for compressing still images that are stored in electronic media [fig. 3] comprising the step of: a. selecting (i.e. input image-X) the image to be compressed /fig. 3]; b. selecting the desired degree (i.e. maximum unified coding gain) of compression [page 634, col. 1, section 3.17; c. constructing non-separable wavelet (i.e. subband) filters (i.e. determining filter coefficients), based on the desired degree of compression (i.e. maximum unified coding gain) for the image, for decomposition of the image by non-separable wavelet transformation [page 634, col. 1, section 3.1; fig. 3]; d. transforming the image into an array of frequency coefficients (i.e. subband coefficients) of the pixels by executing one level of decomposition for each filters [fig. 3(a)]; f. quantizing the values of the frequency coefficients [page 634, col. 2, section 4.2; fig. 3]; whereby the image is restored in the YCbCr format through the use of a pre-designated reconstruction formula; and transformed into the RGB palette after reconstruction is complete [This limitation appears to be the intended result of the method positively recited, hence not given patentable weight. See MPEP 2111.04. It is also noted that limitation recites a concept notoriously well-known to image compression, for example IPEG 2000, hence the Examiner further takes Official Notice.]

Iwahashi does not explicitly disclose the following claim limitations:

e: sorting said frequency coefficients in descending order;

g. encoding the quantized values by run length and arithmetic coding methods;

However, in the same field of endeavor Tong discloses the deficient claim limitations, as follows:

Sorting said frequency coefficients in descending order (i.e. layers with higher layers have larger coefficients and lower layers having smaller coefficients) [figs. 3A and 3B; col. 7, ll. 53-64]

and encoding the quantized values by run length (i.e. 4) and arithmetic coding (i.e. 6) methods [Fig. 1; col. 11, ll. 55-65].

It would have been obvious to one with ordinary skill in the art at the time of invention to modify the teachings of Iwahashi with Tong in order sort frequency coefficients and encode by run length and arithmetic coding, the motivation being to achieve efficient compression [col. 3, ll. 5-15].

Contact Information

[4] Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mr. Sath V. Perungavoor whose telephone number is (571) 272-7455. The examiner can normally be reached on Monday to Friday from 8:30am to 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Matthew C. Bella whose telephone number is (571) 272-7778, can be reached on Monday to Friday from 9:00am to 5:00pm. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Dated: January 31, 2008

Matthew C. Bella Sath V. Perungavoor

Telephone: (571) 272-7455

Marthew C. Bella SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2600

i NPL document titled "Two Channel Non-Separable 2D Subband Coding and Its Optimization"

[&]quot; US 5,982,434